

WHAT IS CLAIMED IS:

1. A liquid discharge cartridge comprising:  
a recording head provided with a liquid discharge  
port for discharging liquid;

5       at least one liquid storing chamber for storing  
liquid to be supplied to said recording head;

        a gas-liquid separation member arranged for an  
opening portion of said liquid storing chamber; and

        an atmosphere communication port for enabling  
10       the inside of said liquid storing chamber to be  
communicated with the air outside through said gas-  
liquid separation member, wherein

        given the length of each of paths from said gas-  
liquid separation member to said atmosphere  
15       communication port as  $L_n$ , and the sectional area of  
each path as  $S_n$ , the diffusion resistance  $R$  is

$$R = \sum (L_n / S_n)$$

        Then, the coefficient  $K$  calculated on the basis  
of the liquid evaporation rate not allowing component  
20       contained in said liquid to be solidified around said  
liquid discharge port, said diffusion resistance  $R$ ,  
and the amount of liquid evaporation is

$$K = 10,000 \text{ (mg} \cdot \text{mm/mm}^2\text{)}$$

        Given the total weight of liquid filled in said  
25       liquid storing chamber as  $V$ , the following expression  
is satisfied:

$$K / V < R < 2,000$$